Name: Date:

Core 1 ***Linear*** Activity

1. Research a cell phone plan using your lap top. Write down the following information:

* ***Cost Per Month: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***
* ***Cost Per Additional Minute:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

2. Fill in the table using your information:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| # of Minutes | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
| Cost |  |  |  |  |  |  |  |  |

3. What is the starting cost per month?

4. Where can you find this information in your table?

5. In your table, what is the cost changing by?

6. In your table, what is the number of minutes changing by?

7. ***Define slope:***

8. What is the ***rate of change/slope*** for your problem?

9. Write the linear equation for your problem using ***c for cost*** and ***n for number of minutes.***

***Equation:***

10. Write the now-next statement that matches your problem.